

ARCS PROCEDURE:	<b>NAURU WEEKLY ROUNDS CHECKLIST</b>	PRO(ARCS)-027.006
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## GENSET

See Procedure PRO(GEN)-004

The following 4 steps are visual inspections and are performed weekly and without the need of performing the GENSET shut down procedure.

**Note:** Beware that generator could possibly start up should a grid utility power failure occur during inspection.

#	Question	Yes	No
1.	Inspect vibration mounts; are they secure and tight?		
2.	Inspect battery posts; are they clean and free of any corrosion or electrolyte seepage? (See PRO(GEN)-004. to clean.)		
3.	Check fluid level in batteries in the U-VAN, and RECORD LEVEL ON GENSET LOG and Weekly Fax Sheet comments; if low, fill to bottom of the fill tubes with rain water, and record on GENSET LOG and Weekly Fax Sheet comments; is the fluid level now correct?		
4.	Are the battery caps secured and returned to normal configuration?		

## EXPANSION VAN – Inventory

#	Question	Yes	No
1.	Are all tools and supplies in their proper place?		
2.	Are desiccants, chemicals, and instruments stored away safely?		

## ARCS VANS

See Procedure PRO(ARCS)-007

#	Question	Yes	No
1.	Inspect outside power connections and seals around doors, hatches, cable entrances, and windows; are they secure and tight and free of cracks or damage?		
2.	Inspect the ground straps from the vans: are they tight and free of corrosion? See PRO(ARCS)-007 to clean		
3.	Inspect GOES antennas; are mountings secure with tight cable connections?		
4.	Is the GOES antenna pointing in the correct direction? <i>If NO, see PRO(ARCS)-007 for procedure to align.</i>		

## CEILOMETER

#	Question	Yes	No
1.	Clean the window with a soft cloth and rainwater; is it now clean?		

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### STAND-ALONE INSTRUMENTS (inside I-Van) – Atmospheric Emitted Radiance Interferometer (AERI)

#	Question	Yes	No
1.	Inside the ventilation closet remove and check the air filter. Is it clean?		
2.	Press the hatch control button (except when closed during rain). Does the hatch move momentarily and then reopen?		
3.	Has the AERI Sensor been cleaned? Clean the AERI rain sensor; Was this completed successfully?		

### STAND-ALONE INSTRUMENTS (outside) – WHOLE SKY IMAGER (WSI)

#	Question	Yes	No
Open the west door of the white box and look inside:			
1.	Is it clean and dry inside?		
2.	Is the coolant water reasonably clear (free of white flakes or color)?		
3.	Is the coolant flowing?		
4.	Does the reservoir have enough water (between fill and full)?		
Close the door:			
5.	Is the occulter reasonably tight, not flopping around (wiggle with hand)?		
Open the east door:			
6.	Is the area inside free of varmints/debris?		

### SKYRAD – MFRSR

See Procedure PRO(RSR)-001

#	Question	Yes	No
1.	Place bubble level on the sensor head; is the bubble centered on the sensor head?		

### STAND-ALONE INSTRUMENTS (outside I-Van) – Millimeter Cloud Radar (MMCR)

#	Question	Yes	No
1.	Perform inspection from the ground. Are all Radome clamps and assemblies intact and secure?		

### STAND ALONE INSTRUMENTS (inside D-Van) – Solar Power Control Box

#	Question	Yes	No
1.	Open the Solar Power Control box. Are the three lights under the "Battery Condition" banner light ON?		
2.	On the left-hand side, there are two switches. Place the left switch in the UP position and the right switch in the DOWN position. Observe the digital readout above the switch, is the value between 11.0 and 13.6?		

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## CIMEL

The CIMEL consists of an instrument, a power box, a control box and a GOES antenna. The instrument has a double barrel lens assembly that rotates up and down and periodically scans the sky. The Power Box contains one large Vitel battery and 2 small CIMEL batteries. The Control Box contains a white Electronique unit and a black Vitel VX1004 unit. Close and latch power and control boxes when finished.

#	Question	Yes	No
1.	Did you set the GMT time clock in the E-Van and take it to the pad?		
2.	Look over the CIMEL, the boxes and the antenna; are the cables connected securely and not tangled?		
3.	When the double barrel lens is pointing toward the sun, check the light on the bull's eye. Is the light lined up with the bull's eye?		
4.	While the double barrel lens is pointing toward the sun, check the moisture sensor by wetting it. Did the double barrel point down after wetting the moisture sensor?		
5.	In the Power Box, are the battery connections securely fastened and is the box free of standing water?		
6.	In the Control Box, check the CIMEL clock by pressing the <i>GREEN</i> , the <i>RED</i> (View), then <i>WHITE</i> (Bat) buttons. Is the time within 10 seconds of GMT? If no, reset time using PRO(CIMEL)-002.		
7.	Check the Vitel clock by pressing the <i>ON/OFF</i> button, (the display will read "Time"), then press <i>SELECT</i> . <u>Read the time</u> , then press <i>ON/OFF</i> , then press <i>SCROLL</i> several times until "Activate" is displayed, then press <i>SELECT</i> . Is the displayed time between GMT and 5 seconds before GMT? If no, reset time using PRO(CIMEL)-002.		
8.	Check the CIMEL internal battery by pressing <i>GREEN</i> , then <i>RED</i> (View), then <i>WHITE</i> (Bat). <u>Read the voltage</u> and then press <i>GREEN</i> . Is the battery voltage reading between Ba 5.0 and Ba 5.7 volts?		
9.	Check the Vitel battery by pressing <i>ON/OFF</i> , (the display will read "Time"), then press <i>SCROLL</i> several times until "Sensor" is displayed, then press <i>SELECT</i> (the display will read "Bat"), then press <i>SELECT</i> again and <u>read the battery voltage</u> . Then press <i>ON/OFF</i> twice. Is the battery voltage greater than 12.5 volts?		

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## HYDROGEN GENERATOR

#	Question	Yes	No
1.	Did you perform Hydrogen Generator weekly maintenance check? <i>See PRO(BBSS)-007, BBSS: Electrolyzer Operations and Maintenance.</i>		
2.	Is the oxygen (oxygen test against air) level greater than 20%? <i>If NO, change Chromous Chloride Solution, see PRO(BBSS)-007, BBSS Electrolyzer Operations and Maintenance.</i>		